

Additional Sediment Sampling Location Recommendations
Revised: May 21, 2013

Row	River Mile	Existing Sample Reference Location	Additional Sample Recommendations	Status	EPA/Partner Agency Tentative Recommendation (after discussion during 5/9/2013 webinar)	CPG Proposal – 13 June 2013	EPA Response 8/23/13
A	7.2-7.3		CPG Proposal			7 locations to support CSM (characterize lateral variation)	Okay, pending additional justification.
B	8.4		CPG Proposal			1 location to support CSM (location with limited historical deposition)	Okay, pending additional justification.
1	8.42	12A-0468	West bank: 2 more to the south and 1 to the north of this location.	EPA requested 3, CPG proposed 3	Take 2 samples on west bank: remove the one closest to 12A-0468, move the southern one to ~RM 8.4, and move the northern one further north (between current location and SSP location).	South - Probing indicates <0.5' penetration, cobble, gravel – No Sample North – 1 @ RM 8.55, between utilities	Take at least a grab sample on west bank, half way between 0468 and 0467. Probing indicates penetration in this area of 0.5 to 1 foot. In addition, take 1 on the east bank, near 12A-0467.

2	8.75		East bank: 1 location, between LPRT09E and LPRT09G.	Along with requests made in Row 5, EPA requested 5 corings and CPG proposed 1.	Place 1 in south end of mudflat, one in middle, and one near the north end of the mudflat.	South -1 @ RM 8.7 (south of utility) Middle – 1@RM 8.9 North – LRC-057 – No Sample	Okay. Even though the text in the previous column says there will be no sample at the north end of this area, a marker is placed appropriately on the figure. Please include this location.
3	8.81	LPRT09F	West bank: 3 additional samples <ul style="list-style-type: none"> • 1 more to the south, between this and 12A-0470 • 2 more to the north, between this and 08A-056 	CPG agreed to take the three samples proposed.	Okay – probing will be used to guide placement.	South– 1@RM 8.7 (south of utility) North – 1@RM 8.85, 1@RM 8.95 (placed based on probing)	Okay.

4	8.90	12A-0475	West bank: 1 more to the north and 1 more to the south, to bound.	EPA requested 2, CPG proposed 1	The 1 proposed is acceptable. Consider moving it further south (to the tip of the mudflat) if probing indicates this makes sense.	1@RM 9.2 (moved to tip of mudflat)	Location okay, but make sure it is near the bank. Also, the figure indicates an appropriately placed location to the north of G0000152. Please include this location.
5	8.90		East bank: 1 more north of LPRT09G (at end of Hendel Avenue), one at end of Sunset Avenue, one south of LPRT10B, and one between Arlington Boulevard and Eagle Street (4 total).	See notes in Row 2	See notes in Row 2		See notes in Row 2.
C	9.25		CPG Proposal			2 locations to support CSM (location with limited historical deposition)	Why are these (and the next one) placed in a diagonal transect rather than a horizontal one?

D	9.3		CPG Proposal			1 location to support CSM (location with recent erosion)	Okay, pending additional justification.
E	9.4		CPG Proposal			1 location to support CSM (location with recent erosion)	Okay, pending additional justification.
6	9.10 to 9.50		East bank: 2 locations, adjacent to park, between SSP-474 and the intersection of Baltimore Avenue and River Road.	EPA requested and CPG proposed 2	Generally okay, may want to adjust locations	Probing indicates <0.5' penetration, gravel north of SSP-474— No samples	Please revert back to the previous general locations. Probing indicated at least one area in this vicinity with penetration of 8', and take at least a grab at the other location.
7	9.60	12A-0476	East bank: 3 to 4 additional samples at and near mouth of Unnamed Creek.	EPA requested 4, CPG proposed none	Use probing and/or visual inspection to determine whether access for coring is possible here. Sample 1 or 2 additional locations, as possible, to define depth of contamination.	Need clarification – utilities, existing samples (LRC-060) – sample @RM 9.5 (<1' sediment)? West bank probed – add a sample?	One the east bank, add one location at inlet near G0000155 and one near G0000156 (just south of the utility area). Also add 2 locations on the west bank, as indicated on the map.

8	10.10	12A-0478	West bank: 2 locations to the south and 1 to the north to bound contamination here at depth.	EPA requested 3, CPG proposed 2	<p>Okay, but move northern location further north (half way between current location and RM 10.5 marker).</p> <p>In addition, the sample you propose just south of the RM 10.0 mile marker should be placed in the silt area (closer to shore).</p>	<p>North – 1@RM 10.45 (north of utility)</p> <p>South – 1@RM 10.15</p> <p>Sample @RM 10 – location to achieve specific CPG DUO. Add an additional sample along the shore?</p>	Add another location approximately half way between 12A-0478 and 08A-063.
F	10		CPG Proposal			1 location to support CSM (location with recent erosion)	Okay, pending additional justification.
G	10.05		CPG Proposal			6 locations to support CSM (lateral and spatial variation).	Okay, pending additional justification.
9	10.0 to 10.5		East bank: 2 to 3 more locations along this bank.	EPA requested 3, CPG proposed 2	<p>Okay, but move the southern one farther south (to where the one is indicated but not accepted) and the northern one farther north (half way between current one and RM 10.5 marker).</p>	<p>South – 1@ RM 10 and 1@ RM10.1 (based on probing)</p> <p>North – 1@ RM 10.3 (utility)</p>	Restore location at north end of silt area, and add one across from location on west bank, just below the RM 10.5 marker.

10	10.31	12A-0480	West bank: 1 more to the north	EPA requested, and CPG agreed, to take 1.	See Row 8, this can be the same as the northern one described there.		Okay.
H	10.3		CPG Proposal			1 location to support CSM (location with limited historic deposition)	Okay, pending additional justification.
11	10.5 to 11.2		West bank: approximately 4 locations across from RM 10.9 removal area, adjacent to Nutley side of river.	EPA requested 4, CPG proposed 2	Revise based on probing, consider taking 2 grab samples at 2 southern locations.	1@ RM 10.9 1@ RM 11 1@ RM 11.2 (based on probing) South of RM 10.9 – probing indicates sand/gravel/rocks	Okay.
12	~11.2	3 rd River	West bank: approximately 5 additional samples, from 0 to 6” and 6 to 18” only, at and near mouth of river.	EPA requested 5, CPG proposed 2	Use probing to confirm locations and numbers. Additional locations may be possible. Probing into the mouth of the river should be conducted.	4 locations? Mouth of river to be probed during SSP2 survey (OneCall response not received in time)	Okay, will determine exact locations in field, with input from EPA.

13	11.24	12A-0481	East bank: 5 more to north, between this and 08A-070	EPA requested 4, CPG proposed 3	Use probing to determine if 3 or 4 makes sense.	1@ RM 11.25 (overlap w/line 12) 1@ RM11.3 Probing indicates <0.5' penetration, gravel along east bank.	Okay
14	11.51	08A-0069	West bank: 1 more to north and 1 more to south	EPA requested 2, CPG proposed 1	In addition to the location to the south of 08A-0069, place a coring to the north, if possible, based on coring.	South – 1 @ RM 11.45 North – 1@ RM 11.65 (based on probing and utilities)	Okay

15	11.5 to 13.5		Center channel: equidistant corings in this area to further refine the nature and extent of contamination in this part of the river.	EPA requested ~4, CPG proposed none	Conduct a transect probing program from RM 11.5 to 13.5 to define the main river channel and depth of sediment moving upstream. Based on this information, discuss placement of additional borings in this area to delineate the nature and extent of contamination.	<p>1 @ RM 13.15</p> <p>Utilities. Probing indicates predominantly sand/gravel bed.</p> <p>Existing cores within nav channel: 12A-0482 @ RM 11.8 08A-071 @ RM 12 12A-0484 @ RM 12.3 08A-075 @ RM 12.6 12A-0485 @ RM 12.7 08A-076 @ RM 12.8 08A-078 @ RM 12.25</p>	Add center channel locations near T14B and between T14E and T14F.
16	11.75	LPRT12E	East bank: 1 more to south and approximately 5 more to north	EPA requested 6, CPG proposed 2	Conduct probing in this area to confirm whether corings are feasible. If they are not, collect grab samples to close the data gap. Locations can be discussed after probing is complete.	<p>1 @ RM 11.7 1 @ RM 11.8</p> <p>Probing indicates sand and gravel, limited penetration to the north.</p>	Two more on east bank, at approximately RM 11.8 and RM 12.25.

17	12.0 to 12.3		East bank: 4 to 6 additional locations along this shore, from south of 081-072 to just south of 12A-0484.	EPA requested 5, CPG proposed none	Conduct probing in this area to confirm whether corings are feasible. If they are not, collect grab samples to close the data gap. Locations can be discussed after probing is complete.	1 @ RM 12.3 Probing indicates gravel, penetration <0.5'	Okay.
18	12.30	08A-073	West bank: 1 more to north and 1 more to south, to bound.	EPA requested 2, CPG proposed none	Conduct probing in this area to determine whether additional corings are feasible and/or warranted.	North - 1 @ RM 12.45 South - 1 @ RM 12.15	One more between 073 and C13A.
19	12.25 to 12.75		East bank: sample 4 locations, 2 on either side of 08A-077.	EPA requested 4, CPG proposed 2	Tentatively sample 3 locations here – move the southern one further south and the northern one farther north (to the RM 13 mile marker).	1 @ RM 12.3 (overlap w/Line 17) 1 @ RM 12.7 (based on probing) Probing indicates limited, patchy sediment	Add one across from 0486 and one between T13G and T13F.

20	12.80	08A-077	East bank: 1 more to north and 1 more to south, to bound	CPG agreed to sample these locations. Revised request includes one more location on either side of 08A-077 (4 total).	Repeat of request in previous row.		
21	13.0		West bank: 1 more to south and 2 to 3 more to north of location 12A-0486.	EPA requested 3, CPG proposed none	Conduct probing in this area to confirm whether corings are feasible. If they are not, collect grab samples to close the data gap. Locations can be discussed after probing is complete.	1 @ RM 12.95	Add a location across from 077. Also add one just below and above the utility area around RM 13.5.
22	13.8		East bank: 2 to 3 locations south of Gregory Avenue bridge.	EPA requested 3, CPG proposed 1	Okay	1 @ RM 13.75	Okay.
I	14.5		CPG Proposal			2 locations to fill spatial gap, support surface mapping	Okay, pending additional justification.

23	17.3		West bank: additional sample location on this bank.	EPA requested 1, CPG proposed none	Verify conditions, take a coring or grab if possible.	Visual verification of substrate during SSP2 survey, no sample is anticipated.	Okay.
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